

ABSTRACT

An exhaust gas decontamination system and a method of exhaust gas decontamination wherein in the regeneration of NO_x occlusion reduction type catalyst with respect to a lean-burn engine or diesel engine, even in the instance of rich burning accompanied by EGR, the NO_x released from the NO_x occlusion reduction type catalyst can satisfactorily be reduced and purged to thereby exhibit a high NO_x removal ratio. The exhaust gas decontamination system (1) provided with the NO_x occlusion reduction type catalyst (30) includes control unit (C1) comprising normal control operation means (C10), regeneration control initiation judging means (C20), catalyst activation control operation means (C30) and rich-burn control operation means (C40) capable of lowering the concentration of oxygen in the exhaust gas so as to realize such a constitution that the catalyst is carried out just before rich burning accompanied by EGR.